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%PRINT ('File: CLIMAC.REQ, Version V04-000, Edit 3, TJP, 14-DEC-1978')

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MODULE: CLIMAC.REQ

FACILITY: COMMAND LANGUAGE UTILITY INTERFACE

ABSTRACT: REQUIRE FILE WHICH DEFINES THE CLI INTERFACING MACROS

HISTORY:

VERSION: X01.00

AUTHORS: T.J. PORTER + M.L. JACK 03-MAY-77

MODIFIED BY:

VO3-001 GASOO16 GERRY SMITH 28-0CT-1981 FIX \$CLIQUAL CODES MACRO.

VOI-001 T.J. PORTER 14-DEC-1978
CHANGE QDFLGS DEFAULT TO NULL STRING

VOI-001
GIVE QDFLGS A DEFAULT VALUE OF 0.

VOI-001 ADD QDFLGS AND USRVAL TO \$CLIQUALDESC

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CLIMAC.REQ:1
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FUNCTIONAL DESCRIPTION:
      THIS REQUIRE FILE DEFINES THE BLISS MACROS TO BE USED BY A UTILITY WHICH IMPLEMENTS A COMMAND OF THE VMS OPERATING SYSTEM. THE MACROS ARE THOSE FOR DECLARING THE BLOCKS USED IN THE COMMUNICATION BETWEEN THE UTILITY AND THE RESULT PARSER OF THE COMMAND LANGUAGE INTERPRETER. THE NAMES AND CALLING SEQUENCES ARE AS DESCRIBED IN VMS DOCUMENTATION.
                            CREATE A CLI REQUEST DESCRIPTOR BLOCK
KEYWORDMACRO
                            SCLIREQUESC (RQTYPE,
                                                                                                                BITNUM=0.
                                                                                                                                                                        RQFLGS,
ABSACT=0,
                                                                       ERRACT=0.
                                                                                                                PRSACT=0.
                                                                       QUALST=0)=
                             BLOCK[CLISC_REQDESC, BYTE]
                             INITIAL (
                                                        BYTE (%NAME ('CLISK_', RQTYPE)),
                                                                                                                                                                                                          REQUEST TYPE BYTE
                                                         BYTE (BITNUM)
                                                                                                                                                                                                          PARAMETER BIT NUMBER
                                                        CLISBITFLD(BYTE, CLISV_, RQFLGS),
                                                                                                                                                                                                           FLAGS BYTE
                                                                                                                                                                                                          STATUS BYTE
ERROR ACTION ROUTINE
                                                         BYTE(0)
                                                         LONG(ERRACT).
                                                         LONG(0,0).
                                                                                                                                                                                                          PARAMETER QUADWORD
                                                                                                                                                                                                          STRING DESCRIPTOR
                                                                                                                                                                                                          PARAMETER PRESENT ACTION ROUTINE PARAMETER ABSENT ACTION ROUTINE
                                                        LONG(PRSACT),
                                                         LONG (ABSACT)
                                                                                                                                                                                                          QUALIFIER DESCRIPTOR LISTHEAD
                                                         LONG(QUALST))%:
                            CREATE A CLI PARAMETER QUALIFIER DESCRIPTOR
KEYWORDMACRO
                           SCLIQUALDESC (QDCODE, TSTLST,
                                                                                   CODE, QDFLGS = TRUACT = 0, FLSACT = 0,
TSTLST, SETLST, CLRLST) =
BLOCK[CLI$QUAL$]ZE(USRVAL,TSTLST,SETLST,CLRLST),BYTE]
                                                                                                                                                                                                                                                                                      USRVAL.
                                                                                                                ALIGN(0)
INITIAL (
                                                                                                                                            BYTE(CLISQUALSIZE(USRVAL, TSTLST, SETLST, CLRLST)),
                                                                                                                                            BYTE (CLISQUALNAME (QDCODE)),
                                                                                                                                             %IF %NULL (USRVAL)
                                                                                                                                                                        THEN CLISBITFLD(BYTE, CLISV_, QDFLGS)
XELSE CLISBITFLD(BYTE, CLISV_, (QDUSRV, TREMOVE (QDFLGS))) TFI.
                                                                                                                                            BYTE(0)
                                                                                                                                             LONG(0,0)
                                                                                                                                            LONG (TRUACT),
                                                                                                                                              LONG(FLSACT)
                                                                                                                                            IF INULL (USRVAL) ITHEN IELSE LONG(USRVAL), IFI
IF INULL (IREMOVE (TSTLST)) ITHEN BYTE (0) IELSE CLISBITLIST (IREMOVE (TSTLST)) ITHEN BYTE (0) IELSE CLISBITLIST (IREMOVE (SETLST)) ITHEN BYTE (0) IELSE CLISBITLIST (IREMOVE (SETLST)) ITHEN BYTE (0) IELSE CLISBITLIST (IREMOVE (CLRLST)) ITHEN BYTE (0) I
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CLIMAC.REQ:1
          CREATE THE END OF A QUALIFIER LIST
MACRO
         $CLIQUALEND = BYTE ALIGN(0) INITIAL(0)%.
          DECLARE THE NAMES OF CLI QUALIFIER CODES
         $CLIQUALCODES(UTILNAME) =
                    XIF XDECLARED (XQUOTE XQUOTE CLISUTILQUALPRE)
                              THEN UNDECLARE TOUOTE TOUOTE CLISUTILQUALPRE: TFI
                    MACRO CLISUTILQUALPRE = "NAME('CLISK', CLISTAKE4(UTILNAME),'')%QUOTEX;
                    CLISQUALNAME (TREMAINING) T.
          THE FOLLOWING IS A SET OF UTILITY MACROS FOR ALL THE ABOVE
          CLISBITS(A,B)[]=
               CLISMASK (%NAME (A,B)) CLISOR (%REMAINING) CLISBITS (A, %REMAINING) %,
         (1^((P)+(S)) - 1^(P)) %,
          CLISOR[]=
              OR %.
         CLISBITFLD(ALLOC, PREFIX, VALUE) = XIF XNULL(VALUE)
               THEN ALLOC(0)
               XELSE ALLOC(CLISBITS(PREFIX, XREMOVE(VALUE)))
         CLISLENGTH[] = %LENGTH %.
         CLISBITLIST[] = BYTE (%LENGTH, %REMAINING)%,
         CLISQUALSIZE (UVAL, TBLST, SBLST, CBLST) =
                             XIF XNULL(UVAL) XTHEN 0 XELSE 4 XF1 +
XIF XNULL(XREMOVE(TBLST)) XTHEN 0 XELSE CLISLENGTH(XREMOVE(TBLST))XF1 +
XIF XNULL(XREMOVE(SBLST)) XTHEN 0 XELSE CLISLENGTH(XREMOVE(SBLST))XF1 +
XIF XNULL(XREMOVE(CBLST)) XTHEN 0 XELSE CLISLENGTH(XREMOVE(CBLST))XF1X,
          CLISTAKE4(SOMESTRING) = CLISJOIN4(XEXPLODE(SOMESTRING))X,
          CLI$JOIN4(A,B,C,D) = XSTRING(A,B,C,D)X,
          CLISQUALNAME[QUALNAME] =
                    %NAME(CLISUTILQUALPRE,CLISTAKE4(QUALNAME))%;
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